

October 4, 1950.

Dear Roger:

The p-hydroxybenzoic and mandelic acids just arrived: thanks very much. I am sorry that you won't find time to visit, but can well understand how rushed you will be. *Pseudomonas fluorescens* has worked like a charm in all of the mutation experiments so far; the penicillin method worked beautifully, and I isolated a couple of dozen mutants (8 or 10 distinct types) in the first run. Right now, I'm in the midst of making doubles, although some preliminary crossing experiments with stable singles have not been encouraging. Streptomycin resistance is also an excellent marker; the wild type is strongly inhibited at 100 u/ml, like coli. I'll send you some of the mutants, which I think may be useful, in a couple of days. So far the list includes types requiring leucine; isoleucine + valine [Ed A. might care for this]; phenylalanine; tyrosine; histidine; purines; and several not yet identified. If my first run for a mandelate-neg. mutant is unsuccessful, I will probably want to verify the applicability of the method. A couple of distinctive cultures like A3.19 and A3.17 would be useful for this purpose. Could you have them sent out? Thanks,

Sincerely,